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FILE COVERS 1907 - 28 Apr 2003 VOL 138 ISS 18
FILE LAST UPDATED: 27 Apr 2003 (20030427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s filter(l)cloth
      199670 FILTER
      96615 FILTERS
      241583 FILTER
          (FILTER OR FILTERS)
      29778 CLOTH
      5015 CLOTHS
      32012 CLOTH
          (CLOTH OR CLOTHS)
L1      3333 FILTER(L) CLOTH
```

```
=> s middle(l)layer
      86130 MIDDLE
      86 MIDDLES
      86185 MIDDLE
          (MIDDLE OR MIDDLES)
      1017722 LAYER
      456196 LAYERS
      1249561 LAYER
          (LAYER OR LAYERS)
L2      11565 MIDDLE(L) LAYER
```

```
=> s slub(l)layers
      291 SLUB
      24 SLUBS
      304 SLUB
          (SLUB OR SLUBS)
      456196 LAYERS
L3      3 SLUB(L) LAYERS
```

```
=> s protective(l)layers
      173629 PROTECTIVE
      188 PROTECTIVES
      173767 PROTECTIVE
          (PROTECTIVE OR PROTECTIVES)
      456196 LAYERS
```

L4 10683 PROTECTIVE(L) LAYERS

=> d his

(FILE 'HOME' ENTERED AT 16:48:22 ON 28 APR 2003)

FILE 'CAPLUS' ENTERED AT 16:49:09 ON 28 APR 2003

L1 3333 S FILTER(L) CLOTH
L2 11565 S MIDDLE(L) LAYER
L3 3 S SLUB(L) LAYERS
L4 10683 S PROTECTIVE(L) LAYERS

=> s staple(1) fiber(1) layers

7229 STAPLE
485 STAPLES
7590 STAPLE
(STAPLE OR STAPLES)

439706 FIBER
462663 FIBERS
602309 FIBER
(FIBER OR FIBERS)

456196 LAYERS

L5 174 STAPLE(L) FIBER(L) LAYERS

=> d his

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FILE 'CAPLUS' ENTERED AT 16:49:09 ON 28 APR 2003

L1 3333 S FILTER(L) CLOTH
L2 11565 S MIDDLE(L) LAYER
L3 3 S SLUB(L) LAYERS
L4 10683 S PROTECTIVE(L) LAYERS
L5 174 S STAPLE(L) FIBER(L) LAYERS

=> s l1 and l2 and l4 and l5

L6 0 L1 AND L2 AND L4 AND L5

=> s l1 and l2 and l4

L7 1 L1 AND L2 AND L4

=> s l1 and l2 and l5

L8 0 L1 AND L2 AND L5

=> d l3 1-3 bib,abs

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2000:592602 CAPLUS

DN 133:195125

TI Filter cloth

IN Oksanen, Esa; Heikkila, Aarne-Matti

PA Tamfelt OYJ ABP, Finland

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000048707	A1	20000824	WO 2000-FI105	20000214

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL,

PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FI 9900334 A 20000818 FI 1999-334 19990217
EP 1154832 A1 20011121 EP 2000-903741 20000214

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

US 2002127935 A1 20020912 US 2001-930173 20010816

PRAI FI 1999-334 A 19990217

WO 2000-FI105 W 20000214

AB A filter cloth is described having a variable vol. based on diaphragm
extrusion, suitable for a Larox vertical pressure filter. The filtering
properties of the filter cloth are substantially similar in both
directions through the cloth, and slurry contg. liq. and solids is
alternately placed on the different sides of the filter cloth. The filter
cloth comprises a middle layer and protective **layers** on both
outer surfaces of the middle layer. The middle layer can have, e.g., a
woven structure, and the protective **layers** may be **slub**
layers attached to the middle layer by needling. The protective
layers are denser than the middle layer.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1998:344682 CAPLUS

DN 129:88719

TI Ionic interdiffusion of functionally gradient piezoelectric materials in
PNN/PZT system

AU Zhu, Xin-Hua; Xu, Jie; Meng, Zhong-Yan

CS National Lab. Solid State Microstructures, Nanjing Univ., Nanjing, 210093,
Peop. Rep. China

SO Wuji Cailiao Xuebao (1998), 13(2), 181-188

CODEN: WCXUET; ISSN: 1000-324X

PB Kexue Chubanshe

DT Journal

LA Chinese

AB The ionic interdiffusion for Nb5+, Ni2+, Zr4+ and Ti4+ ions in the PNN/PZT
functionally gradient piezoelec. materials were studied as a function of
diffusion temp. and time resp. The ionic compositional distribution
profiles were examd. by electron probe microbeam anal. (electron-probe
microanal.), from which the thickness of the interdiffusion **layers**
were detd. Based on a diffusion model of the overlapped diffusion solute
from thin **slub**, the numerical simulation of the ionic concn.
distributions for Nb5+, Ni2+, Zr4+ and Ti4+ ions was carried out by
computer, which was in agreement with the electron-probe microanal. exptl.
result. The ionic diffusivities and apparent activation energies were
estd., and discussed.

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1976:139948 CAPLUS

DN 84:139948

TI Bituminous waterproofing membrane

PA Tajima Roofing Co., Ltd., Japan

SO Brit., 16 pp.

CODEN: BRXXAA

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 1418997	A	19751224	GB 1973-8056	19730219
	JP 48085664	A2	19731113	JP 1972-16906	19720219

CA 976720	A1	19751028	CA 1973-161919	19730124
ZA 7300633	A	19731031	ZA 1973-633	19730129
AU 7351554	A1	19740801	AU 1973-51554	19730130
HU 166026	P	19741228	HU 1973-TA1236	19730206
DE 2306235	A1	19730913	DE 1973-2306235	19730208
DE 2306235	C2	19830203		
NL 7302007	A	19730821	NL 1973-2007	19730213
BE 795489	A1	19730529	BE 1973-127701	19730215
DD 102424	C	19731212	DD 1973-168909	19730216
IT 984374	A	19741120	IT 1973-67369	19730216
CS 166668	P	19760329	CS 1973-1149	19730216
PL 84746	P	19760430	PL 1973-160784	19730216
NO 142997	B	19800818	NO 1973-634	19730216
NO 142997	C	19801126		
FI 71522	B	19861010	FI 1964-7304	19730216
FI 71522	C	19870119		
ES 411750	A1	19760501	ES 1973-411750	19730217
FR 2172428	A1	19730928	FR 1973-5840	19730219
CH 589167	A	19770630	CH 1973-2378	19730219
DK 151908	B	19880111	DK 1973-878	19730219
DK 151908	C	19880613		
US 3937640	A	19760210	US 1975-575538	19750508
US 4039706	A	19770802	US 1975-575540	19750508
US 4055453	A	19771025	US 1975-575539	19750508
PRAI JP 1972-16906		19720219		
US 1973-331602		19730212		

AB A multilayer bituminous waterproof roofing membrane was prepd. by impregnating a nonwoven acetylated poly(vinyl alc.) fabric with molten blown bitumen 100/45 at 200.degree., then coating the impregnated material to 1 mm depth on each side with the same bitumen before sandwiching it between 2 **layers** of bitumen-coated, siliconized kraft paper release sheet. The laminated material was laid in overlaps on a primer-coated concrete roof slab removing the release sheet on all but the exposed surfaces. The upper surface of the thus-prepd. roof was then overlaid with a bitumen-impregnated, crushed slate-faced glass fleece, removing the release sheets as overlaying progressed. Finally, the slate surfaces were wet, and the overlapping portions welded with a gas flame to build up a 10.5 mm composite bitumenized roof. This method of application gives better waterproofing than conventional cold application, and is safer from fire, injury, and pollution than hot application. The laminated material was laid in overlaps on a primer-coated concrete roof **slub**, removing the release sheet on all but the exposed surfaces. The upper surface of the thus-prepd. roof was then overlaid with a bitumen-impregnated, crushed slate-faced glass fleece, removing the release sheets as overlaying progressed. Finally, the slate surfaces were wet, and the overlapping portions welded with a gas flame to build up a 10.5 mm composite bitumenized roof. This method of application gives better waterproofing than conventional cold application, and is safer from fire, injury, and pollution than hot application.

=> d his

(FILE 'HOME' ENTERED AT 16:48:22 ON 28 APR 2003)

FILE 'CAPLUS' ENTERED AT 16:49:09 ON 28 APR 2003

L1	3333 S FILTER(L) CLOTH
L2	11565 S MIDDLE(L) LAYER
L3	3 S SLUB(L) LAYERS
L4	10683 S PROTECTIVE(L) LAYERS
L5	174 S STAPLE(L) FIBER(L) LAYERS
L6	0 S L1 AND L2 AND L4 AND L5
L7	1 S L1 AND L2 AND L4
L8	0 S L1 AND L2 AND L5

=> s 12 and 14 and 15
L9 0 L2 AND L4 AND L5

=> s 12 and 14
L10 92 L2 AND L4

=> s 11 and 110
L11 1 L1 AND L10

=> d 111 bib,abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AN 2000:592602 CAPLUS
DN 133:195125
TI **Filter cloth**
IN Oksanen, Esa; Heikkila, Aarne-Matti
PA Tamfelt OYJ ABP, Finland
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000048707	A1	20000824	WO 2000-FI105	20000214
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	FI 9900334	A	20000818	FI 1999-334	19990217
	EP 1154832	A1	20011121	EP 2000-903741	20000214
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	US 2002127935	A1	20020912	US 2001-930173	20010816
PRAI	FI 1999-334	A	19990217		
	WO 2000-FI105	W	20000214		

AB A **filter cloth** is described having a variable vol. based on diaphragm extrusion, suitable for a Larox vertical pressure **filter**. The filtering properties of the **filter cloth** are substantially similar in both directions through the **cloth**, and slurry contg. liq. and solids is alternately placed on the different sides of the **filter cloth**. The **filter cloth** comprises a **middle layer** and **protective layers** on both outer surfaces of the **middle layer**. The **middle layer** can have, e.g., a woven structure, and the **protective layers** may be slub **layers** attached to the **middle layer** by needling. The **protective layers** are denser than the **middle layer**.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 16:48:22 ON 28 APR 2003)

FILE 'CAPLUS' ENTERED AT 16:49:09 ON 28 APR 2003

L1 3333 S FILTER(L) CLOTH
 L2 11565 S MIDDLE(L) LAYER
 L3 3 S SLUB(L) LAYERS
 L4 10683 S PROTECTIVE(L) LAYERS
 L5 174 S STAPLE(L) FIBER(L) LAYERS
 L6 0 S L1 AND L2 AND L4 AND L5
 L7 1 S L1 AND L2 AND L4
 L8 0 S L1 AND L2 AND L5
 L9 0 S L2 AND L4 AND L5
 L10 92 S L2 AND L4
 L11 1 S L1 AND L10

=> s composite or laminate

239267 COMPOSITE
 144781 COMPOSITES
 272825 COMPOSITE
 (COMPOSITE OR COMPOSITES)
 76391 LAMINATE
 57079 LAMINATES
 94096 LAMINATE
 (LAMINATE OR LAMINATES)

L12 351313 COMPOSITE OR LAMINATE

=> s l12 and l2 and l4

L13 33 L12 AND L2 AND L4

=> s l13 and l1

L14 0 L13 AND L1

=> s cloth and filter

29778 CLOTH
 5015 CLOTHS
 32012 CLOTH
 (CLOTH OR CLOTHS)
 199670 FILTER
 96615 FILTERS
 241583 FILTER
 (FILTER OR FILTERS)

L15 3549 CLOTH AND FILTER

=> d hi

'HI' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
 ALL ----- BIB, AB, IND, RE
 APPS ----- AI, PRAI
 BIB ----- AN, plus Bibliographic Data and PI table (default)
 CAN ----- List of CA abstract numbers without answer numbers
 CBIB ----- AN, plus Compressed Bibliographic Data
 DALL ----- ALL, delimited (end of each field identified)
 DMAX ----- MAX, delimited for post-processing
 FAM ----- AN, PI and PRAI in table, plus Patent Family data
 FBIB ----- AN, BIB, plus Patent FAM
 IND ----- Indexing data
 IPC ----- International Patent Classifications
 MAX ----- ALL, plus Patent FAM, RE
 PATS ----- PI, SO
 SAM ----- CC, SX, TI, ST, IT
 SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
 SCAN must be entered on the same line as the DISPLAY,
 e.g., D SCAN or DISPLAY SCAN)
 STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
 IALL ----- ALL, indented with text labels
 IBIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
 ISTD ----- STD, indented with text labels

 OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels

 SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations

 HIT ----- Fields containing hit terms
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
 containing hit terms
 HITRN ----- HIT RN and its text modification
 HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and
 its structure diagram
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it occurs

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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

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=> d his

(FILE 'HOME' ENTERED AT 16:48:22 ON 28 APR 2003)

FILE 'CAPLUS' ENTERED AT 16:49:09 ON 28 APR 2003

L1 3333 S FILTER(L) CLOTH
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 L3 3 S SLUB(L) LAYERS
 L4 10683 S PROTECTIVE(L) LAYERS
 L5 174 S STAPLE(L) FIBER(L) LAYERS
 L6 0 S L1 AND L2 AND L4 AND L5
 L7 1 S L1 AND L2 AND L4
 L8 0 S L1 AND L2 AND L5
 L9 0 S L2 AND L4 AND L5
 L10 92 S L2 AND L4
 L11 1 S L1 AND L10
 L12 351313 S COMPOSITE OR LAMINATE
 L13 33 S L12 AND L2 AND L4
 L14 0 S L13 AND L1
 L15 3549 S CLOTH AND FILTER

=> s l2 and l4 and l12

L16 33 L2 AND L4 AND L12

=> s 116 and 115
L17 0 L16 AND L15

=> s 112 and 115
L18 95 L12 AND L15

=> s 118 and 12 and 14
L19 0 L18 AND L2 AND L4

=> s 11 and 14 and 112
L20 0 L1 AND L4 AND L12

=> s needling
280 NEEDLING
2 NEEDLINGS
L21 282 NEEDLING
(NEEDLING OR NEEDLINGS)

=> s 12 and 14 and 112
L22 33 L2 AND L4 AND L12

=> s 121 and 122
L23 0 L21 AND L22

=> s 115 and 121
L24 5 L15 AND L21

=> d 124 1-5 bib,abs

L24 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 2000:592602 CAPLUS

DN 133:195125

TI **Filter cloth**

IN Oksanen, Esa; Heikkila, Aarne-Matti

PA Tamfelt OYJ ABP, Finland

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000048707	A1	20000824	WO 2000-FI105	20000214
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, VZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	FI 9900334	A	20000818	FI 1999-334	19990217
	EP 1154832	A1	20011121	EP 2000-903741	20000214
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	US 2002127935	A1	20020912	US 2001-930173	20010816
PRAI	FI 1999-334	A	19990217		
	WO 2000-FI105	W	20000214		

AB A **filter cloth** is described having a variable vol. based on diaphragm extrusion, suitable for a Larox vertical pressure **filter**. The filtering properties of the **filter cloth** are substantially similar in both directions through the **cloth**, and slurry contg. liq. and solids is alternately placed on

the different sides of the **filter cloth**. The **filter cloth** comprises a middle layer and protective layers on both outer surfaces of the middle layer. The middle layer can have, e.g., a woven structure, and the protective layers may be slub layers attached to the middle layer by **needling**. The protective layers are denser than the middle layer.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 2000:523105 CAPLUS

DN 133:106276

TI Water-neededled nonwoven **cloth** using waste natural silk as raw material and its manufacture method

IN Danxia, Kangfu

PA Meiyintong Dress Co., Ltd., Shanghai, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1236835	A	19991201	CN 1999-113694	19990512
	CN 1095509	B	20021204		
PRAI	CN 1999-113694		19990512		

AB The manuf. method of the title nonwoven **cloth** useful for medical applications comprises screening waste silk, degumming with a mixt. of 90-92% alkali protease and 8-10% soda at 60-63.degree. for 20-25 min (or with a mixt. of 90-95% refining agent and 5-10% soda at 95-100.degree. for 15-20 min), washing with water, bleaching with a soln. contg. H2O2 30-35, H2O2 stabilizer 45-50, Na2SiO3 10-15, and auxiliary agent 5-10% at 90-95.degree. for 80-90 min, washing with hot water contg. acid, treating with 1-3 g L-1 spinning lubricant soln., loosening treatment, removing impurities, and water **needling**. Two more water ponds and bag **filter** screens are used in the water **needling** process compared with conventional one.

L24 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 2000:342301 CAPLUS

DN 132:325794

TI Porous fiber **filters** for dye-containing wastewater treatment

IN Kaneko, Junichi; Kuga, Takehito; Kawamura, Yoshihide; Katsumata, Kazuhisa

PA Nippon Felt Co., Ltd., Japan; Fuji Spinning Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000140830	A2	20000523	JP 1998-323545	19981113
PRAI	JP 1998-323545		19981113		

AB Dye-contg. wastewaters are treated by passing through porous fiber **filters** having a three-dimensional fiber **cloth** structure, which is preferably made by **needling** of a .gtoreq.75% chitosan-contg. fiber web or fiber butt having d. 0.04-0.10 g/cm3 and excellent dye-adsorbing property. The chitosan fiber may be composites with synthetic fibers (e.g., polyethylene, propylene, polyamides or polyethylene terephthalate) and/or natural fibers to increase its adsorbing property.

L24 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 1999:780520 CAPLUS

DN 131:352941
 TI Scrim-inserted electrostatic **filter cloths**
 IN Nelson, David L.
 PA Minnesota Mining and Mfg. Co., USA
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 13 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1153678	A	19970709	CN 1996-107566	19960529
	CN 1076976	B	20020102		
	US 5230800	A	19930727	US 1992-839110	19920220
	EP 626878	A1	19941207	EP 1993-900813	19921203
	EP 626878	B1	19960417		
	R: BE, DE, ES, FR, GB, IT, NL, SE				
	JP 07504121	T2	19950511	JP 1992-514806	19921203
	JP 2746750	B2	19980506		
	ES 2086213	T3	19960616	ES 1993-900813	19921203
PRAI	US 1992-839110	A	19920220		
	WO 1992-US10416	W	19921203		

AB The title **filter cloths** are composed of .gtoreq.1 nonwoven electrostatic nonconductive fibers(e.g., polypropylene), and scrim **cloth** joined by **needling**.

L24 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS

AN 1985:27389 CAPLUS
 DN 102:27389
 TI Needled filtration **cloth**
 IN Mrstina, Vaclav; Strasakova, Alena
 PA Czech.
 SO Czech., 3 pp.
 CODEN: CZXXA9
 DT Patent
 LA Czech
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 216368	B	19821029	CS 1980-8965	19801218
PRAI	CS 1980-8965		19801218		

AB The **filter cloth** with a high edge tightness, suitable for the filtration of pigments and water-treatment sludge in chamber **filter** presses and continuous-belt **filters**, consists of a synthetic fabric (60-90%) and .gtoreq.1 layer of web (10-40) combined by **needling** and has one side smoothed by partial melting. The fabric is made from polypropylene (I), polyamide, and/or polyester threads 122 .times. 2 to 1880 .times. 2 dtex with the warp and weft setting 110-260 and 60-110 threads/10 cm, resp. A typical **cloth** for filtration belts was made by **needling** a I fabric (440 .times. 2 dtex threads in the setting 260 .times. 110/10 cm) to a web from 1.3-2.8 dtex I fibers with 80 punches/cm2. The **cloth** of sq. wt. 570 g/m2 had tensile strength 2500 N/5 cm.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
57.21	57.42

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-5.86	-5.86

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STN INTERNATIONAL LOGOFF AT 17:00:47 ON 28 APR 2003